

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरसिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 07.10.2012

Date of Reporting : 08.10.2012

I. Regional Availability/Demand:

Evening Peak (19:00 Hrs) MW				Off Peak (03:00 Hrs) MW				Day Energy (Net MU)	
Demand Met	Shortage	Requirement	Freq* (Hz)	Demand Met	Shortage	Requirement	Freq* (Hz)	Demand Met	Shortage
33291	2988	36278	50.13	33239	1550	34789	50.07	781.2	64.46

* Half hourly (two 15 minutes block--one block each before and after the designated time) average frequency

II. A. State's Load Details (At States periphery) in MUs:

State	State's Control Area Generation (Net MU)				Drawal Schedule (Net MU)	Actual Drawal (Net MU)	UI (Net MU)	UI [OD:(+ve), UD: (-ve)]	
	Thermal	Hydro	Renewable/others \$	Total				Consumption (Net MU)	Shortages * (MU)
Punjab	53.96	11.72		65.68	73.60	73.68	0.08	139.36	2.20
Haryana	58.81	0.67		59.48	61.93	61.24	-0.69	120.71	3.98
Rajasthan	88.46	0.00	2.89	91.35	64.24	64.92	0.68	156.27	0.53
Delhi	33.50			33.50	43.24	39.14	-4.10	72.64	0.02
UP	101.42	11.56	2.40	115.37	91.65	90.04	-1.61	205.41	53.71
Uttarakhand		14.01		14.01	11.69	13.75	2.06	27.76	1.61
HP		13.53		13.53	8.47	9.20	0.73	22.73	0.72
J & K		15.32	0.00	15.32	15.20	17.22	2.01	32.54	1.70
Chandigarh				0.00	4.44	3.78	-0.66	3.78	0.00
Total	336.14	66.80	5.29	408.23	374.45	372.96	-1.49	781.19	64.46

* Shortage furnished by the respective constituent.\$ Others include UP Co-generation and JK Diesel

II. B. State's Demand Met in MWs:

State	Evening Peak (19:00 Hrs) MW				Off Peak (03:00 Hrs) MW				Day Energy MU	
	Demand Met	Shortage	UI	STOA/PX transaction	Demand Met	Shortage	UI	STOA/PX transaction	STOA/PX transaction	
Punjab	6383	150	-21	1178	5676	0	76	875	26.82	
Haryana	4607	567	-119	307	5060	0	-27	483	10.86	
Rajasthan	6316	0	-231	1015	6591	0	165	1041	24.38	
Delhi	3404	0	177	-425	2692	0	-279	-746	-13.04	
UP	8158	2153	-304	108	9846	1550	94	1938	16.17	
Uttarakhand	1589	0	248	126	1164	0	148	94	3.05	
HP	1053	18	-24	-496	889	0	43	-255	-5.36	
J&K	1587	100	91	-143	1179	0	98	-118	-2.94	
Chandigarh	193	0	-31	-21	142	0	-14	0	0.21	
Total	33291	2988	-214	1648	33239	1550	305	3312	60.15	

* STOA figures are at sellers boundary & PX figures are at regional boundary.

III. Regional Entities :

Station/ Constituent	Inst. Capacity (Effective) MW	Declared Capacity(MW)	Peak MW (Gross)	Off Peak MW (Gross)	Energy (Net MU)	Average Sentout(MW)	UI [OG:(+ve), UG: (-ve)]	
							Schedule Net MU	UI Net MU
A. NTPC								
Singrauli STPS	2000	1435	1550	1558	34.70	1446	34.44	0.26
Rihand I STPS	1000	580	999	434	14.18	591	13.91	0.26
Rihand II STPS	1000	970	1031	1043	23.39	975	23.28	0.11
Rihand III STPS	500	0	0	0	0.00	0		0.00
Dadri I STPS	840	594	618	645	14.03	585	14.12	-0.09
Dadri II STPS	980	479	497	501	11.45	477	11.44	0.01
Unchahar I TPS	420	404	416	439	9.49	395	9.64	-0.15
Unchahar II TPS	420	402	424	439	9.47	395	9.54	-0.07
Unchahar III TPS	210	201	211	219	4.75	198	4.77	-0.02
ISTPP (Jhajjhar)	1000	938	750	780	17.16	715	17.54	-0.39
Dadri GPS	830	801	572	607	13.33	555	13.67	-0.34
Anta GPS	419	395	213	215	5.46	227	5.44	0.01
Auraiya GPS	663	424	220	309	6.91	288	6.85	0.06
Sub Total (A)	10282	7621	7501	7189	164.31	6846	164.65	-0.34
B. NPC								
NAPS	440	266	307	306	6.43	268	6.38	0.05
RAPS- B	440	406	454	456	9.88	412	9.74	0.14
RAPS- C	440	417	465	467	10.03	418	10.01	0.02
Sub Total (B)	1320	1089	1226	1229	26.34	1098	26.14	0.20
C. NHPC								
Chamera I HPS	540	535	540	0	3.69	154	3.70	-0.01
Chamera II HPS	300	25	0	0	0.28	12	0.27	0.00
Chamera III HPS	231	5	0	0	0.25	10	0.23	0.02
Bairasuil HPS	180	182	100	0	1.34	56	1.29	0.04
Salai-HPS	690	341	435	331	7.87	328	8.18	-0.30
Tanakpur-HPS	94	94	95	95	2.31	96	2.24	0.06
Uri-HPS	480	308	336	305	7.09	296	7.16	-0.07
Dhauliganga-HPS	280	280	209	5	3.43	143	3.42	0.01
Dulhasi-HPS	390	257	271	151	6.14	256	6.11	0.03
Sewa-II HPS	120	80	75	0	0.67	28	0.62	0.04
Sub Total (C)	3305	2106	2067	887	33.06	1377	33.23	-0.17
D.NJPC								
Nathpa Jhakri	1500	1605	1510	0	14.49	604	14.45	0.04
Sub Total (D)	1500	1605	1510	0	14.49	604	14.45	0.04
E. THDC								
Tehri HPS	1000	1050	1046	0	4.07	170	4.00	0.07
Koteswar HPS	400	280	278	0	1.33	55	1.30	0.03
Sub Total (E)	1400	1330	1324	0	5.40	225	5.30	0.10
F. BBMB								
Bhakra HPS	1480	841	1101	571	20.75	865	20.19	0.56
Dehar HPS	990	362	660	300	8.68	362	8.69	-0.01
Pong HPS	396	222	306	186	5.58	233	5.01	0.57
Sub Total (F)	2866	1426	2067	1057	35.01	1459	33.89	1.12
G. IPP(s)/JV(s)								
ADHPL HPS(IPP)	192	0	53	54	1.23	51	1.39	-0.16
KWHEP HPS(IPP)	1000	0	300	160	7.24	302	7.36	-0.12
Malana Stg-II HPS	100	0	30	30	0.66	27	0.61	0.05
Shree Cement TPS	300	0	275	280	6.05	252	5.34	0.71
Budhil HPS(IPP)	70	0	19	19	0.50	21	0.41	0.10
Sub Total (G)	1662	0	677	543	15.68	653	15.10	0.57
H. Total Regional Entities (A-G)	22336	15177	16366	10905	294.28	12262	292.75	1.53

I. State Entities	Station	Effective Installed Capacity (MW)	Peak MW	Off Peak MW	Energy(MU)	Average(Sent out MW)	
Punjab	Guru Gobind Singh TPS (Ropar)	1260	1262	1264	28.15	1173	
	Guru Nanak Dev TPS(Bhatinda)	440	208	208	4.36	182	
	Guru Hargobind Singh TPS(L.mbt)	920	966	968	21.46	894	
	Thermal (Total)	2620	2436	2440	53.96	2248	
	Total Hydro	1148	371	607	11.72	488	
	Total Punjab	3768	2807	3047	65.68	2737	
Haryana	Panipat TPS	1367	937	1014	22.56	940	
	DCRTPP (Yamuna nagar)	600	0	0	0.00	0	
	Faridabad GPS (NTPC)	432	401	294	8.57	357	
	RGTPP (khedar) (IPP)	1200	855	831	19.86	827	
	Magnum Diesel (IPP)	25	0	0	0.00	0	
	Jhajjar(CLP)	1320	212	357	7.82	326	
	Thermal (Total)	4944	2405	2496	58.81	2451	
	Total Hydro	62	25	25	0.67	28	
	Total Haryana	5006	2430	2521	59.48	2478	
Rajasthan	kota TPS	1240	1160	1181	27.35	1140	
	suratgarh TPS	1500	1313	1356	29.84	1243	
	Chabra TPS	500	375	377	9.89	412	
	Dholpur GPS	330	137	135	3.38	141	
	Ramgarh GPS	111	76	78	2.00	83	
	RAPS A (NPC)	300	177	177	4.23	176	
	Barsingar (NLC)	250	219	112	3.89	162	
	Giral LTPS	250	0	0	0.00	0	
	Rajwest LTPS (IPP)	540	342	342	7.87	328	
	VSLP LTPS (IPP)	135	0	0	0.00	0	
	Thermal (Total)	5156	3799	3758	88.46	3686	
	Total Hydro	550	0	0	0.00	0	
	Wind power	1843	20	178	2.00	83	
	Biomass	91	26	26	0.63	26	
	Solar	128	0	0	0.26	11	
	Renewable/Others (Total)	2062	46	204	2.89	120	
	Total Rajasthan	7767	3845	3962	91.35	3806	
	UP	Anpara TPS	1630	820	1001	20.10	838
		Obra TPS	1382	543	539	11.90	496
Paricha TPS		890	208	368	6.20	258	
Panki TPS		210	165	150	3.40	142	
Harduaganj TPS		665	230	219	4.90	204	
Tanda TPS (NTPC)		440	398	401	9.77	407	
Roza TPS (IPP)		1200	1094	1104	26.51	1104	
Anpara-C (IPP)		1200	446	477	10.85	452	
Bajaj Energy Pvt.Ltd(IPP) TPS		450	324	324	7.80	325	
Thermal (Total)		8067	4228	4583	101.42	4226	
Vishnuparyag HPS (IPP)		400	262	262	6.03	251	
Other Hydro		527	226	0	5.53	230	
Cogeneration		981	100	100	2.40	100	
Total UP		9975	4816	4945	115.37	4556	
Uttarakhand		Total Hydro	1303	601	634	14.01	584
	Total Uttarakhand	1303	601	634	14.01	584	
Delhi	Raighat TPS	135	108	104	2.78	116	
	Delhi Gas Turbine	282	116	116	2.95	123	
	Pragati Gas Turbine	330	291	307	7.43	310	
	Rithala GPS	108	0	0	0.00	0	
	Bawana GPS	677	220	202	6.78	283	
	Badarpur TPS (NTPC)	705	555	680	13.56	565	
	Thermal (Total)	2237	1290	1409	33.50	1396	
	Total Delhi	2237	1290	1409	33.50	1396	
HP	Baspa HPS (IPP)	330	58	259	2.50	104	
	Malana HPS (IPP)	86	27	29	0.67	28	
	Other Hydro	589	456	460	10.36	432	
	Total HP	1005	541	748	14	564	
J & K	Baglihar HPS (IPP)	450	442	438	10.59	441	
	Other Hydro	323	185	210	4.73	197	
	Gas/Diesel/Others	183	0	0	0.00	0	
	Total J & K	956	627	648	15.32	638	
Total State Control Area Generation		32017	16957	17914	408.23	16758	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			2478	5420	94.29	3929	
Total Regional Availability(Gross)		54353	35801	34239	796.80	32949	

IV. Total Hydro Generation:

Regional Entities Hydro	10364	7345	2188	97.08	4045
State Control Area Hydro	5368	2391	2662	66.80	2532
Total Regional Hydro	15731	9736	4850	163.88	6577

V(A). Inter Regional Exchange [Import (+ve)/Export (-ve)] [Linkwise]

Element	Peak(19:00 Hrs)		Off Peak(03:00 Hrs)		Maximum Interchange (MW)		Energy (MU)		Net Energy MU
	MW	MW	Import	Export	Import	Export	Import	Export	
Vindhychal B/B	200	500	500	0	8.80	0.00	8.80		8.80
Gwalior-Agra (D/C)	493	742	842	0	14.23	0.00	14.23		14.23
Zerda-Kankroli	41	157	190	71	1.62	0.00	1.62		1.62
Zerda-Bhinmal	101	235	310	37	3.66	0.00	3.66		3.66
Malanpur-Auraiya	-97	0	0	119	0.00	0.51	-0.51		-0.51
Badod-Kota/Morak	30	100	62	16	0.97	0.00	0.97		0.97
Mundra-Mohindergarh(HVDC)	130	607	609	0	9.20	0.00	9.20		9.20
Sub Total WR	898	2341			38.49	0.51	37.98		
Pusauli Bypass	50	200	252	0	3.11	0.00	3.11		3.11
MZP- GKP (D/C)	608	1060	1060	0	20.01	0.00	20.01		20.01
Patna-Balia(D/C)	0	351	364	0	2.22	0.00	2.22		2.22
B'Sharif-Balia (D/C)	359	530	542	0	10.28	0.00	10.28		10.28
Barh - Balia(D/C)	303	423	757	0	10.86	0.00	10.86		10.86
Pusauli-Balia	7	57	96	0	0.63	0.00	0.63		0.63
Gaya-Fatehpur (765 Kv)	158	321	429	0	6.71	0.00	6.71		6.71
Pusauli-Sahupuri	142	179	184	0	3.52	0.00	3.52		3.52
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00		0.00
Son Ngr-Rihand	-47	-42	0	48	0.00	1.03	-1.03		-1.03
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00		0.00
Sub Total ER	1580	3079			57.34	1.03	56.31		
Total IR Exch	2478	5420			95.82	1.54	94.29		

V(B). Inter Regional Schedule & Actual Exchanges [Import (+ve)/Export (-ve)] [Corridor wise]

ISGS/LT Schedule (MU)			Bilateral Schedule (MU)		Power Exchange Shdl (MU)		Wheeling (MU)	
ER	Bhutan	Total	Through ER	Through WR	Through ER	Through WR	Through ER	Through WR
33.76	2.12	35.89	5.09	11.31	18.64	10.58	0.45	-0.44
Total IR Schedule (MU)			Total IR Actual (MU)			Net IR UI (MU)		
Through ER	Through WR Inclds Mndra	Total	Through ER	Through WR	Total	Through ER	Through WR	Total
60.06	33.75	93.81	56.31	37.98	94.29	-3.75	4.23	0.48

VI. Frequency Profile <----- % of Time Frequency ----->

<48.80	<49.0	<49.20	<49.50	<49.7	49.5 - 50.2	49.7 - 50.2	> 50.00	> 50.2
0.00	0.00	0.00	0.10	2.80	96.50	93.80	33.30	3.40
<----- Frequency (Hz) ----->				Average Frequency	Frequency Variation Index	Std. Dev.	Frequency in 15 Min Block	
Maximum		Minimum					MAX (Hz)	MIN (Hz)
50.42	15.04	49.50	18.35	49.95	0.22	0.14	50.34	49.88

VII. Voltage profile

Station	Voltage Level (kV)	Maximum		Minimum		Voltage (in % of Time)			
		Voltage(KV)	Time	Voltage (KV)	Time	<380 kV	<390 kV	>420 kV	>430 kV
Rihand	400	414	19:55	404	10:22	0.0	0.0	0.0	0.0
Gorakhpur	400	432	20:38	404	2:17	0.0	0.0	35.8	5.3
Bareilly	400	419	20:45	392	1:32	0.0	0.0	0.0	0.0
Kanpur	400	420	20:45	399	1:31	0.0	0.0	0.0	0.0
Dadri	400	417	20:53	404	10:25	0.0	0.0	0.0	0.0
Ballabhgarh	400	424	21:30	409	5:44	0.0	0.0	7.0	0.0
Bawana	400	420	18:02	408	10:29	0.0	0.0	0.0	0.0
Bassi	400	431	21:29	407	5:46	0.0	0.0	56.9	0.2
Hissar	400	412	21:27	397	10:26	0.0	0.0	0.0	0.0
Moga	400	413	2:57	400	10:36	0.0	0.0	0.0	0.0
Abdullapur	400	419	18:03	401	10:03	0.0	0.0	0.0	0.0
Nalagarh	400	419	18:01	407	10:39	0.0	0.0	0.0	0.0
Kishenpur	400	416	2:53	395	19:10	0.0	0.0	0.0	0.0
Wagoora	400	418	4:04	382	19:09	0.0	3.1	0.0	0.0

VIII. Reservoir Parameters:

Name of Reservoir	Parameters		Present Parameters		Last Year		Last day	
	FRL (m)	MDDL (m)	Level (m)	Energy (MU)	Level (m)	Energy (MU)	Inflow (m³/s)	Usage (m³/s)
Bhakra	513.59	445.62	504.48	1285.56	511.17	1605.30	390.06	587.43
Pong	426.72	384.05	422.11	990.81	422.97	1035.89	136.23	313.13
Tehri	829.79	740.04	524.70	1100.00	818.65	982.26	132.96	98.00
Koteshwar	612.50	598.50	NA	NA	NA	NA	NA	NA
Chamera-I	760.00	748.75	NA	NA	NA	NA	130.77	99.96
Rihand	268.22	252.98	264.14	554.30	265.45	645.80	NA	NA
RPS	352.80	343.81	NA	NA	NA	NA	NA	NA
Jawahar Sagar	298.70	295.78	NA	NA	NA	NA	NA	106.75
RSD	527.91	487.91	520.63	NA	522.92	NA	108.93	163.95

* NA: Not Available

IX. System Constraints:

X. Grid Disturbance / Any Other Significant Event:

XI. Weather Conditions For 07.10.2012 :

1: Normal weather in NR.

XII. Synchronisation of new generating units :

0.00

XIII. Synchronisation of new 220 / 400 / 765 KV lines and energising of bus / /substation :

XIV. Tripping of lines in pooling stations :

XV. Complete generation loss in a generating station :

Report for : 07.10.2012

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER